

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-10-509

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

FORD MOTOR COMPANY

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following Ford Motor Company 1992 model diesel engine is certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
NFM07.8FPK7	7.8      474	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family in grams per brake-horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for this engine family in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
NFM07.8FPK7	0.3	1.9	4.7	0.23

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all materials required to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.)

FORD MOTOR COMPANY

EXECUTIVE ORDER A-10-509  
(Page 2 of 2)

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 5<sup>th</sup> day of February, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINESManufacturer Ford Motor Company Engine Family NFM07.8FPK7 (N7.8PK7)Liter (CID) 7.8L (474 CID) Eng. Type I-6Exhaust ECS & Special Features: DID, TC, CAC  
(Use abbreviations per SAE J1930 Jun 88)

Engine Model (Engine Code)	Fuel Injection Pump Mfr. P/N (-9A543-)	Fuel Injector Mfr. P/N (-9F593-)	Rated HP at RPM	Fuel Rate at Rated HP (cmm/stroke)	Particulate Trap/Catalyst Mfr. P/N
190 HP 1-85H-R10	E9HN-KA	FOHN-AA	190 @ 2300	106	N/A
210 HP 1-85G-R10	E9HN-LA	FOHN-BA	210 @ 2300	114	N/A
215 HP 1-85F-R00	E9HN-PA	FOHN-BA	215 @ 2000	124	N/A
225 HP 1-85E-R10	E9HN-NA	FOHN-BA	225 @ 2300	122	N/A
240 HP 1-85D-R10	E9HN-MA	FOHN-CA	240 @ 2300	129	N/A
270 HP 1-85C-R10	E9HN-TA	FOHN-DA	270 @ 2300	144	N/A

Engine Family: N7.8PK7

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Issue Date: 12-09-91  
Revised: